

How do you make water?

A U of A researcher's basic line of questioning has earned an NSERC Steacie Fellowship.

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To LRT or not to LRT?

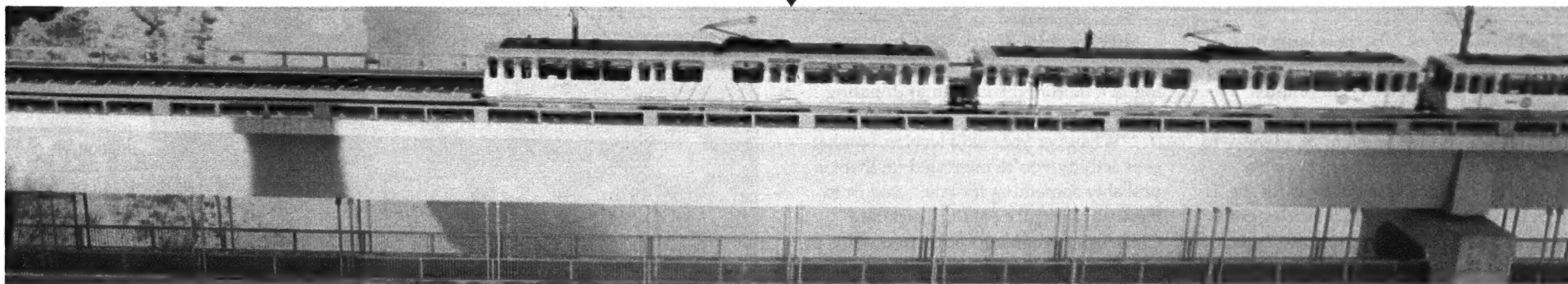
The city's transportation needs are many and varied. And a renewed debate on public transit may be bad news for the planned LRT expansion.

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Top honours

Ray Rajotte and Max van Manen receive the prestigious Kaplan Award for research.

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UNIVERSITY OF ALBERTA

folio

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Finding the right words

\$2.5 million grant will help linguists learn how we catalogue words

By Ryan Smith

Top linguists and psychologists from around the world are collaborating to write "the book" on linguistics, and a University of Alberta professor is leading the way. Dr. Gary Libben and his colleagues are undertaking theoretical research they believe will lead to ways we can, for example, read and learn languages faster.

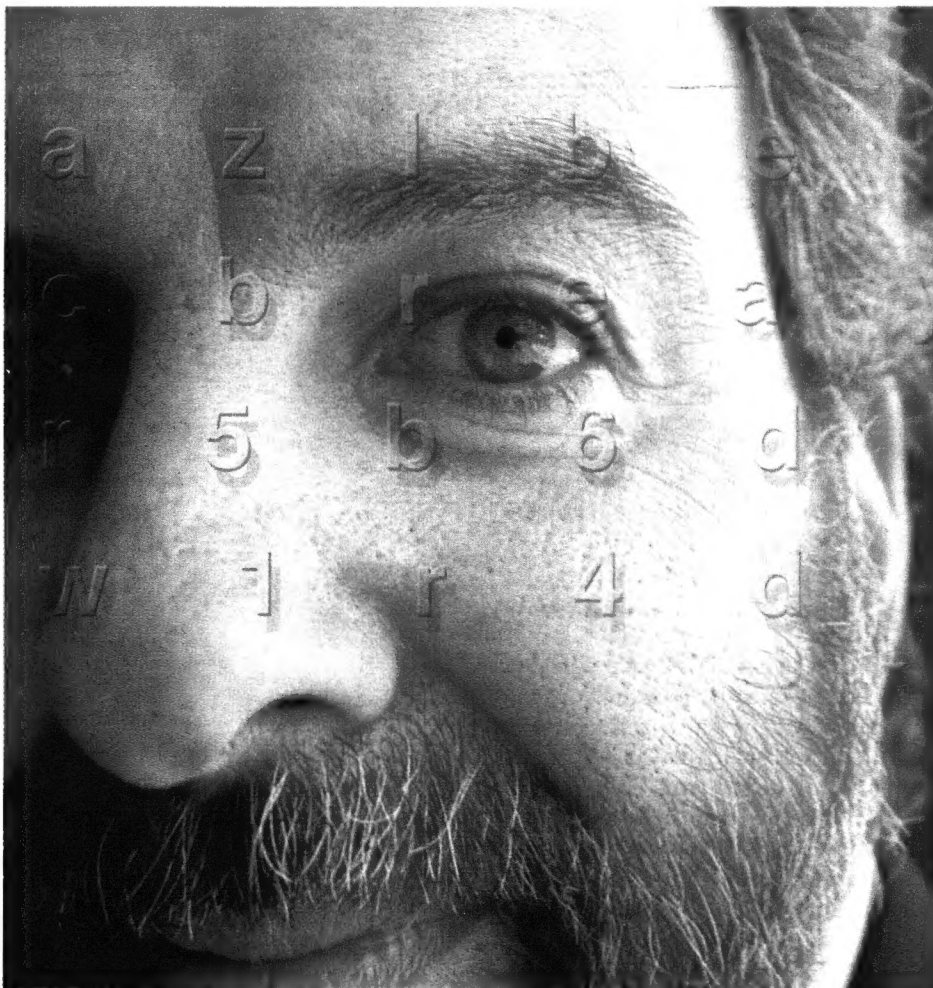
The project, which includes 23 international institutions, was awarded \$2.5 million from the Social Sciences and Humanities Research Council of Canada (SSHRC). Announced in Ottawa recently, the five-year grant is among the largest SSHRC grants awarded this year.

"We're trying to achieve a comprehensive understanding of how words are accessed and understood in the mind by the brain," said Libben, lead researcher of the project and chair of the Department of Linguistics at the U of A.

"Everybody uses language regardless of where they are from, but how language is processed in the mind and in the brain is highly complicated...If we can understand the mental processes of language, it would provide a good window to see how the brain works," Libben said.

Among the fruit Libben promises his group will produce, is "an integrated handbook for new researchers so they don't have to make the same mistakes we've made," he said.

The group also hopes to develop a comprehensive test to determine the extent of damage done to a person's ability to use language after a brain trauma, such as a stroke.



Dr. Gary Libben is heading up an international team trying to find out how the brain accesses and understands words.

"Right now a lot of the work done by speech pathologists is trial and error, but we hope to develop a standardized test," said Dr. Lori Buchanan, professor of psy-

chology at the University of Windsor and one of 13 Canadian collaborators on the project.

"Language is the thing that separates

us from the animals," she added.

"Language is complex and has multiple levels; this is the first research program that will attempt to tie all the levels together."

With a project conducted on such a grand scope, even Libben isn't sure what will come of the research. "We've put together a team of the best senior linguistic and psychology researchers in the world, and we aren't testing any theories—we're simply putting all the research together to try to connect the dots and see what we come up with."

However, tying together all the research in his field isn't the only project Libben is working on these days. He's also leader of an initiative recently granted nearly \$300,000 from the Canada Foundation for Innovation (CFI). The CFI grant will pay for a "lab on wheels," so U of A professors and graduate students can do research in the field.

"I fear we have a good idea of how people behave in a metropolitan environment, but we want to see how 'real' people behave in their natural environment. For example, we'd like to learn about people who speak Native languages. Some of the Native languages are dying around us, so we want to go out into the field and do research with the people who speak these languages," explained Libben, who admits to being busy but excited with the projects he's leading.

"I'm working a lot of weekends, but when you work with a great team and do what you want to do, it's the greatest job in the world," he said. ■

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Are you a short, strong-legged person?

Corporate Challenge wants you to register online

By Richard Cairney

The University of Alberta is launching a campus-wide recruitment drive to increase involvement in Edmonton's Corporate Challenge, setting up a sort of internal version of the event in advance to help field the strongest team possible.

In recent years U of A teams for the 21 activities in the challenge, featuring competitors from across the city, have been chosen by team captains. This year, spots on the U of A Corporate Challenge teams will be earned in a series of fun, try-out activities.

"The point is participation," said John Younk, the U of A's Corporate Challenge co-ordinator and ONEcard office manager. "We don't want people to think this is for elite athletes."

Events at the Corporate Challenge range in athletic demands from participating in a modified triathlon to donating blood.

"Whatever your skill level is, at whatever activity you're interested in, there is probably something for you," said Brad Hestbak, a member of the Corporate Challenge organizing committee and U of A director of client services. "This gets people thinking about physical activity and team spirit, and it is a whole lot of fun."

So in selecting the soccer team that will represent the U of A at the Corporate Challenge, for example, four campus teams will be formed, and they will compete against one another, says Younk.

"I think what we'd do with soccer is pick the best players from those teams to form the U of A's team," he said.

The same might apply in selecting members of the power pull (tug-of-war) team, which is established not in numbers of members but their combined weight. "We need 2,000-lbs. of short, strong-legged people," said Younk. "The more little people you have pulling on that rope, the better."

"We really wanted to make it more of



The U of A's Corporate Challenge team celebrated its second consecutive second-place finish last year. Organizers are hoping to include more people in the fun this year.

"The point is participation. We don't want people to think this is for elite athletes."

— John Younk,
U of A Corporate
Challenge
co-ordinator

an event on campus, to build team spirit in the U of A, so that when we go into the competitions we've already got momentum," added Hestbak. "This way even people who don't get into the Corporate Challenge have already participated. We want to open it up a bit so everyone has an opportunity to get involved."

Hestbak and Younk figure that by making the Corporate Challenge a big event on campus, the U of A teams, which

have placed second overall for the past two years, could also generate enough of a following to win the Team Spirit trophy.

"It's the most coveted of them all," said Younk. "It means you not only have strong teams, but spirit as well—everyone is out there cheering on you and the other teams."

U of A faculty and staff interested in trying out for a Corporate Challenge team can register online at <http://www.creative.ualberta.ca/cc2002>■

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Chemistry professor wins top Canadian research award

Innovative work leads to NSERC Steacie Fellowship

By Arnet Sheppard

Dr. Wolfgang Jäger asks the kind of questions about the world that parents sometimes get from young children—simple-sounding questions that probe at nature's essence. For example, how do you make water?

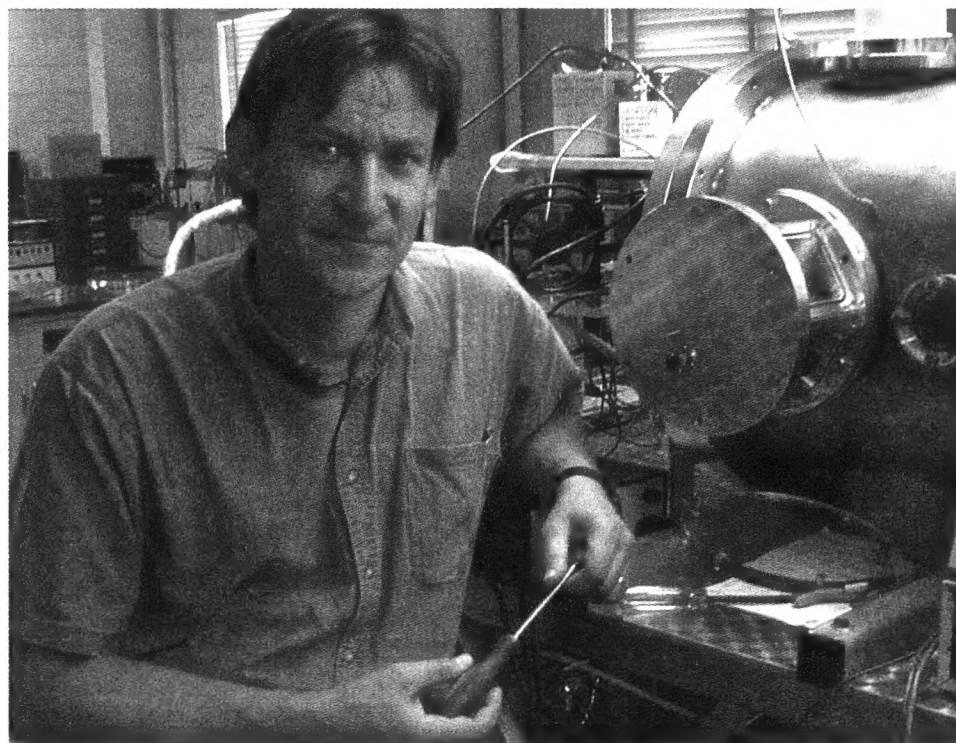
What separates the University of Alberta spectroscopist from most inquisitive big thinkers is that he's spent much of the last decade looking for an answer. Jäger has built a state-of-the-art machine to study the subtle atomic-level dance between molecules that, for instance, transforms a gas into a liquid and a group of atoms into an intricately folded life-giving protein.

"All the instruments we have were designed from first principles and built from scratch. You can't buy them. Our machine shop was essential in designing and building them," Jäger said. "And then it takes a highly motivated and determined crew to get the research done."

It's experimentation at the borderlands of chemistry and physics for which Jäger is being awarded a 2002 Natural Sciences and Engineering Research Council (NSERC) Steacie Fellowship—one of Canada's premier science and engineering prizes. Steacie Fellowships, which allow professors to concentrate on research full-time, are awarded to the most outstanding scientists or engineers who have earned their doctorate within the last 12 years. Jäger is one of a half-dozen researchers to win a Steacie Fellowship this year. The U of A alone has earned a total of seven of the prestigious fellowships, more than any other university.

"It's a very long path from the microscopic properties of a water molecule to the macroscopic properties of the bulk phase," Jäger said. "We're looking for the bridge between microscopic properties and macroscopic ones. And these changes occur because of molecular interactions."

The weak molecular interactions he studies are known as van der Waals forces. Getting a handle on these attractive forces between groups of atoms is like trying to overhear a whispered conversation in a



Dr. Wolfgang Jäger's work to understand the path between single molecules and the matter they comprise has earned him an NSERC Steacie Fellowship.

crowded gym while you're standing far away. Yet it's the conversation that's keeping everyone there.

During the mid-1990s, Dr. Jäger and his research team spent nearly a year building what's known as a Fourier transform microwave spectrometer. It took another year to add a powerful terahertz radiation source. This high-tech, fridge-sized apparatus enables researchers to carefully create small molecular clusters that often include helium atoms. These are hit with a microwave beam and the resultant spectral ("energy") emissions yield information about the rotation of the molecules in relation to one another.

"We need quantum mechanics to understand the spectral data," said Jäger. "You're really at the very fundamental level of chemistry and physics when you're doing this kind of spectroscopy. It's something radically different from the world we know."

Understanding the spectroscopic data requires high-powered number crunching.

This year, Jäger's lab acquired a Beowulf cluster—20 linked PCs. And with all that computing power, the process still requires 15 hours to calculate one of 2,000 potential energy points which are required to create an image from the experimental data.

With his Steacie Fellowship, Jäger will extend his research into the nascent field of helium nanodroplet isolation spectroscopy. He'll be leading the construction of a new machine—the first of its kind in Canada and one of only a few in the world—that will allow the researchers to trap molecules in super-fluid helium droplets and analyze them inside this "ultra-cold nano-laboratory."

Operating at 0.38 Kelvin—close to what is the total absence of heat—this new spectroscopic technique will allow for the study of larger clusters of molecules, providing insight into processes that occur in solution.

For Jäger, it will be one step closer on the quantum path between single molecules and what we simply call water. ■

The last spike?

The fate of Edmonton's planned LRT expansion is up in the air

By Richard Cairney

During the 1970s, Edmonton's municipal planners had a vision for public transit: amidst an economic boom and unprecedented growth, they predicted that by the early 1980s the city's brand-new LRT line would extend as far south as Southgate Mall.

Twenty years later the line has barely crossed the North Saskatchewan River. Plans to continue further south are the subject of fierce debate. The move is regarded in some corners as utterly wasteful and in others as entirely necessary. Later this month, the issue comes before Edmonton city council, which could choose to spike the ambitious \$600-million extension.

The scheme is a political minefield. The matter was supposed to go before council in December but was deferred after Mayor Bill Smith publicly suggested that going ahead with the first leg of the project could be a waste of taxpayers' money. The first stage of the plan would extend the LRT line to a new ground-level station near the University of Alberta Hospital, then onto the Neil Crawford Centre—from the line's current end beneath the U of A campus—at a cost of \$109 million. The mayor reasoned that, with no guarantee of sustained funding from the federal or provincial governments to complete the entire south-side extension all the way to Heritage Mall, spending \$109 million to simply bring the tracks out of the ground would be irresponsible.

A showdown is brewing: before the mayor questioned the idea of continuing with the LRT extension, a handful of councillors had argued the project should be accelerated. The question Smith seems to be raising is whether the needs of passengers who would ride the south line each day—and those trips could include existing trips from bus lines cannibalized by the extension—outweigh other transportation needs. Smith points to the need for an overpass at 156 Street north of the Yellowhead Trail, and roughly \$500 million required to complete the Yellowhead, among other projects such as the extension of Anthony Henday Drive.

Dr. Mike Percy, dean of the U of A School of Business and president of the Edmonton Chamber of Commerce, agrees the problem is one of setting priorities or finding new sources of revenue.

But a recent suggestion that Edmonton impose a tax on its neighbouring municipalities to help pay for infrastructure costs should be rejected outright, said Percy.

"Taxing suburban commuters is probably one of the most destructive things you could do," he said. "It would lead firms to locate outside the city boundaries."

One idea that wouldn't generate as much political fallout is to break with recent fiscal policies and borrow money to pay for the projects.

Percy has dubbed the idea of borrowing funds for essential, large capital projects "smart debt."

Both the city and province have paid down tremendous debts, but current poli-

"Rising costs and fares, and falling ridership, have created a death spiral for transit in North America."

—Dr. Robin Lindsay



Plans to extend the LRT are the subject of a fierce debate at city hall. Councillors will address the matter later this month.

cies support cyclical, boom-and-bust spending. It may be time the city shed its pay-as-you-go policies. "Imagine if we tried paying for a house all at once. Not many of us could do it," said Percy.

"Whenever we've had windfalls, we've acted in the best interests of our infrastructure, and when the economy slows down, we cut back—so we exacerbate the extent of the downturn," he said. "One hopes we see the province and city moving out of this boom-and-bust, feast-or-famine way of financing infrastructure."

There are other solutions to funding transportation infrastructure, including turning to the private sector. The Montreal-based firm ANC Lavalin would love nothing more than to take on the South

Edmonton LRT expansion. ANC President Pierre Anctil says his company would gladly shoulder costs of constructing the line, provided the right subsidies were in place.

Anctil's firm specializes in such joint public-private ventures. It bought the new \$4-billion, 109-km Highway 407 near Toronto from the Ontario government in 1999, helping the province reduce its debt. Motorists who want to avoid the infamously congested 401 can pay an 11-cent-per-kilometre toll and drive on the new highway. ANC will cover operating and maintenance costs of the highway and turn a profit. Under an agreement

with the Ontario government, the stretch of road will revert to provincial ownership at the end of a 99-year agreement. The company is involved in a similar project, building freeway overpasses in Costa Rica.

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—Dr. Mike Percy

Anctil says there is always a way that for-profit firms can succeed in non-profit operations, like public transit. It's simply a case, he explained, of governments paying some form of subsidy, which it would typically apply to the service, to the company.

It may be the only way to go.

Dr. Robin Lindsay, a professor of economics and McCalla Professorship recipient, is researching private-sector approaches to problems of growing traffic congestion

and declining transit ridership. He says that, with a few exceptions, public transit is in trouble across North America.

"Rising costs and fares, and falling ridership, have created a death spiral for transit in North America," he said. Public transit faces many competitors, chiefly the automobile.

The ability to travel from point to point on their own schedule, at greater speed and comfort, combine to make car travel more attractive.

Getting people out of their cars and onto buses is a Catch-22 situation, he adds: "To attract riders, there must be an extensive service, but to warrant good service

there must be a large demand."

The city estimates that, once the extension is complete, the south LRT will accommodate about as many riders as the northern line does, averaging 35,000 passengers per day.

But who would pay for the project? Who should?

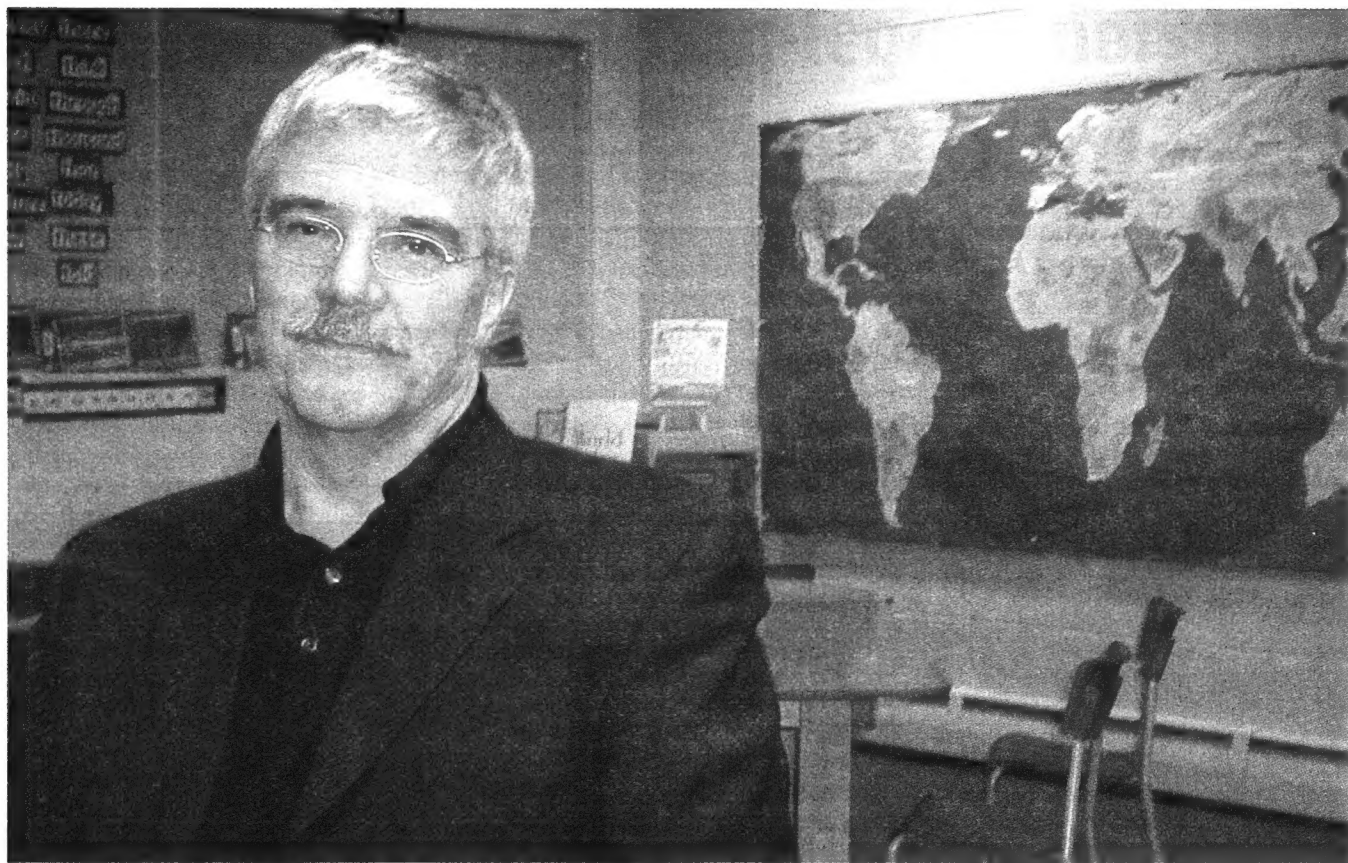
Applying user-pay theory to public transit is complicated: change one element, like fares, and it affects another, like ridership. Make public transportation more expensive and you increase revenues at the risk of losing riders and making a public system less accessible to low-income earners; reduce fares and you risk no corresponding increase in ridership and a certain loss of income.

The question of having motorists subsidize public transit wouldn't work, Lindsay said.

Motorists generally agree they ought to pay for their own costs, but nothing more. Freeing up funds for the LRT by charging tolls along the Yellowhead to pay for upgrades to that road might work, but motorists could divert from tolled roads to untolled congestion-prone streets, including residential neighbourhoods, he said.

Whatever the ultimate plan for the city's LRT, Percy says one thing is certain: "The city had better make sure it's the appropriate use of public money and make sure the benefits, broadly defined, outweigh the social costs of that capital. The alternative to putting that \$100 million into the LRT, then the extra \$500 million, is improving access to the downtown core, or completing Anthony Henday Drive or a whole range of other projects.

"What they need is a pretty darned good set of data," says Percy. ■



Richard Cairney

Dr. Max van Manen is studying the ways recognition is experienced by school children.

A phenomenal body of work

Kaplan Award winner 'transformed' views of educational research

By Richard Cairney

There is a certain irony in asking Dr. Max van Manen how it feels to receive the J. Gordin Kaplan Award for Excellence in Research. First of all, van Manen studies phenomenology, a branch of philosophy concerned with life events—things that happen. Usually he's the one asking others what this type of recognition means to a person.

The University of Alberta professor of education is studying how recognition plays a role in the development and growth of school children.

"Recognition has to do with identity," van Manen said. And among students, "there is always this tension between being seen for who you are and being seen for what you could be. So a child says, 'Oh, the teacher sees me like that? I want to be like that.'"

The concept of phenomenological pedagogy, van Manen's field of study, can be difficult to explain and challenging to grasp. van Manen positions his human science research between social science and humanities and arts.

"In social science you write a research report, in humanities you write a novel, and in human science you begin to say, 'This is what a particular experience is like.'"

So phenomenological pedagogy involves studying aspects of learning, such as experiencing difficulty, or being encouraged or suddenly understanding something new. van Manen is currently working with four junior high school teachers who are exploring issues of recognition among students.

Dr. Larry Beauchamp, dean of the Faculty of Education, says van Manen's ground-breaking work has had a profound impact on educational research.

"He has developed an area of research that simply did not exist in North American educational studies before his contributions," said Beauchamp. van Manen's research and writings "represent a major transformation in our understanding of how educational research is best conducted. For over 25 years he has focused on human perception and experience as an alternative to 'objective' experi-

mental paradigms borrowed from the natural sciences in the study of children and learning, teachers and instruction."

Beauchamp points out that van Manen's phenomenological approach has taken root in other disciplines. In his most recent book, *Writing in the Dark: Phenomenological Studies in Interpretive Inquiry*, van Manen offers readers a collection of studies from a wide array of disciplines.

One contributor examines the potential ambiguity that exists when a nurse asks a patient, "How are you?" Another writer answers, in a manner at once tragic and fascinating, what it's like to live with obsessive compulsive disorder. van Manen himself is investigating the "sense of self" of Alzheimer's patients by delving into the meaning and impact of what it's like to forget a person's name.

But van Manen's first interest is in the kinds of knowledge teachers use in teaching children. In his first two books, *Tone of Teaching* and *The Tact of Teaching*, he explores what is at the core of the act of teaching.

"There are some things you can do before you go into a class, but in the classroom there is no time to step back and make decisions. The kid is giving me lip—what am I going to do?" You act out of a knowledge that is much more implicit—almost your body knowing than a body of knowledge. And that knowledge you use cannot be connected back to theory."

—Dr. Max van Manen

"People are very much into the 'science' of teaching," he said. "Even now, teaching is seen as a process where you make decisions about curriculum—there is a decision-making model that underlies teaching." The 'science' doesn't explain how a teacher can walk into a rowdy class and quiet students down with a glance that isn't intimidating but is respectful and in turn earns respect.

"There are some things you can do before you go into a class, but in the classroom there is no time to step back and make decisions. The kid is giving me lip—what am I going to do?" You act out of a knowledge that is much more implicit—almost your body knowing than a body of knowledge. And that knowledge you use cannot be connected back to theory."

So, back to the question: how does van Manen feel about the award? "It's an incredible honour," he said. "Much of my work for many years was at the margins. Twenty-five years ago it was a struggle. So it's satisfying that this work is now being seen as valuable." ■

Prof reads minds that read

'Referential memory' is the key to process of reading

By Stephen Osadetz

What happens in your mind as you read these words? The answer might not be as simple as you think. Dr. Peter Dixon, a professor of psychology at the University of Alberta, is trying to understand the specific cognitive process that occurs when the written word is recorded on the retina and the meaning of the words is understood.

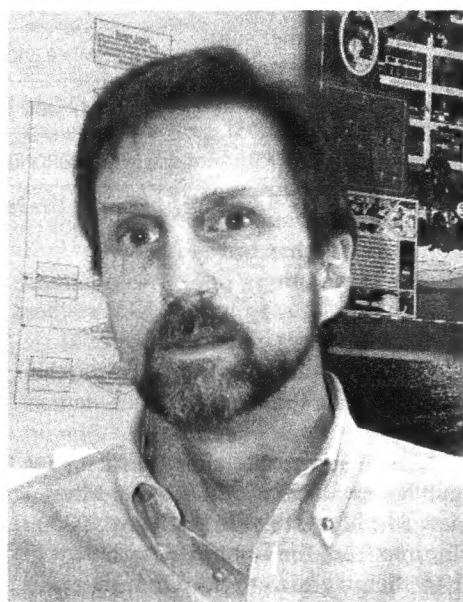
The idea among psychologists is that, in order to understand a text, you use a specific kind of memory, "working memory." Essentially, working memory is the short-term bank of information we use to perform tasks, whether we're reading a sentence, remembering an address, or recalling an acquaintance's name. Working memory, then, is distinct from long-term memory, which is your store of all other memory that isn't currently in use.

But for Dixon, whose work is partly funded by Natural Sciences and Engineering Research Council (NSERC), the correlation between reading and working memory is too simple. "My approach to the problem of reading is to say, 'let's not talk about working memory in gener-

al. Let's talk about a particular piece of that whole puzzle,' " he said. That critical piece is what Dixon calls "referential memory," and for him, it's the key to understanding the psychological process in our minds.

Dixon is wary of general theories that seek to simplify the complex process of reading. "I don't want to talk about things in a global fashion. Instead, I want to break the research into individual pieces. If you look at a number of different aspects of working memory, you start to get a better idea of how it all comes together. Then you can construct a more global picture of reading."

Specifically, referential memory is used to remember people, objects, and events. When you read, says Dixon, "you are using referential memory to construct a miniature world out of what the text refers to. While everybody understands this, they don't really understand what's involved in this process." Referential memory, as a component of working memory, is distinct from other types of memory for sentence structure and the background



Dr. Peter Dixon

knowledge required to understand a text.

To test his hypothesis, Dixon measures how well people remember what they read. For instance, to test one type of reading memory, called "reading span," a test

subject is shown a number of sentences. The subject is then asked to recall the last word of each sentence. The number of sentences a subject can remember correctly, the higher her reading span.

When the sentences are connected in content, the test becomes easier to do. In this case, says Dixon, "You're not maintaining the information in some sort of buffer. You're maintaining it in referential memory."

Dixon believes his basic research is an essential step leading to broader applications. "Reading is a basic cognitive process, one of the most dramatic cognitive skills that people have. Understanding how reading works could yield tremendous insight into how the mind works," he says.

Stephen Osadetz is a third-year student and part-time science writer for Folio and ExpressNews. His writing position is funded by NSERC and is part of a program called SPARK, which aims to involve students in the dissemination of research. To suggest story ideas, write Stephen at sosadetz@ualberta.ca. ■

Tenacity and smart colleagues led to Edmonton Protocol

Dr. Ray Rajotte earns Kaplan Award for years of research

By Richard Cairney

“Just surround yourself with bright young people.” That’s Dr. Ray Rajotte’s explanation for his world-renowned research in treating diabetes. Rajotte, who heads the University of Alberta’s Islet Cell Transplant team, has received the prestigious J. Gordin Kaplan Award for Excellence in Research. Named for the U of A’s first vice-president of research, the award is the highest honour the university bestows upon its own researchers.

Colleagues say it is typical of Rajotte to deflect personal praise. He insists team-work is the key to scientific success. “It really has been, for years, a team effort, and that is what has brought us to where we are today,” he said.

It is precisely that sort of thinking that has earned Rajotte such respect within the university community. While his scientific contributions cannot be understated, says Dr. Stewart Hamilton, chair of the Department of Surgery, one of Rajotte’s most important contributions to science at the University of Alberta has been “as a leader and mentor.”

“There are numerous members of the Faculty of Medicine (and Dentistry) who have grown up under his tutelage and who are making significant contributions of their own.”

It seems that’s what Rajotte had in mind when he began his diabetes research three decades ago. The time commitment alone says something of his persistence. What’s less apparent is that personal success has never been part of Rajotte’s agenda.

“For me, when people ask the question, ‘What have you contributed in science?’, the answer is probably found in whatever your grad students have done,” he said. With team members like Drs. Garth Warnock, Norm Knetteman, Jonathan Lakey, Greg Korbitt and James Shapiro—the team that developed the Edmonton Protocol for islet cell transplants—success was only a matter of time.

But what drives a person to carry on with a project even when it seems futile? “There is no doubt, we had hit a dead end,” said Rajotte.

“And people would say, ‘You’ve been at this for 30 years—why don’t you just give up?’ ” Some were ready to do just that.

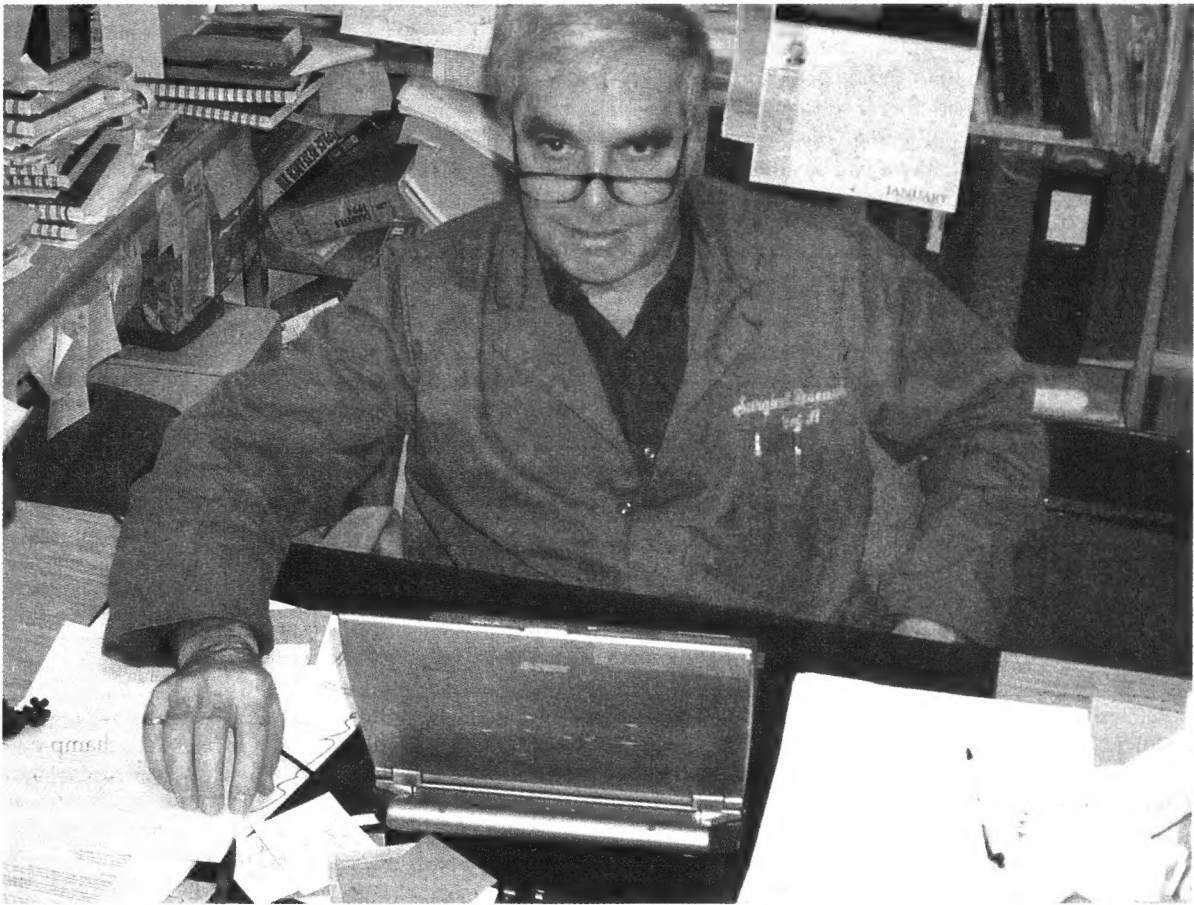
Dean of Medicine and Dentistry Dr.

Lorne Tyrrell says funding agencies became disillusioned. In 1995 the Medical Research Council of Canada and the Canadian Diabetes Association withdrew funding for Rajotte’s research.

“The world was quite discouraged and questioned whether islet cell transplants would ever be an effective surgery,”

“The world was quite discour aged and ques- tioned whether islet cell transplants would ever be an effective surgery. I had individuals in our faculty that encouraged us not to support this program any further as it was unlikely ever to be successful.”

—Dr. Lorne Tyrrell



Dr. Ray Rajotte is working to establish a “one-stop shop” for diabetes research.

Tyrrell said. “I had individuals in our faculty that encouraged us not to support this program any further as it was unlikely ever to be successful.”

“We didn’t give up, because day in and day out we could make this work with small animals,” Rajotte explained. When all seemed lost, he presented new ideas to Tyrrell, winning six-months’ worth of faculty funding. During that time the team regained MRC and CDA support.

Five years later the team published an article in the *New England Journal of Medicine* announcing the Edmonton Protocol.

from basic research to bedside—under one roof. It’s an important step because everyone believes it’s necessary to improve current islet-cell-transplant techniques.

There are about 6,000 new cases of Type 1 diabetes diagnosed every year and only about 400 pancreases available for transplantation. At best, only 10 per cent of patients will receive an islet cell transplant, Rajotte says. So in addition to the clinical program, the U of A has a very active basic science program working on all areas of islet cell transplantation, from developing alternative sources of tissue through xenotransplantation or stem-cell

research to establishing genetic treatments that would limit the use of post-operative immunosuppressive drugs.

“Right now patients have a choice: take insulin for the rest of your life or take anti-rejection drugs for the rest of your life,” said Rajotte. He says it’s possible genetic treatments could lead to the cre-

ation of cells that protect transplanted islet cells from an immune system attack.

“This could be the treatment of choice for all Type 1 diabetics,” he said.

Rajotte knows such achievements come from team efforts and is humbled by being named a Kaplan Award recipient. “I knew Gordin Kaplan—I’ve been here that long. And it is an honour to be recognized this way and to follow in the steps of other outstanding people. It’s great to be recognized by your peers this way,” he said.

Then, in typical manner, he shares the credit: “I’m accepting this award on behalf of the team.” ■

New stem cell guidelines spark old debate

CIHR announcement earns praise and criticism

By Simon Kiss

The Canadian Institutes of Health Research has announced new guidelines for stem cell research, renewing a scientific, political and philosophical debate about the role that embryos can and should play in medical research.

University of Alberta professor of health law Tim Caulfield sat on the committee that developed the guidelines. “These guidelines will allow more research than what is happening in the United States but less than what is happening in Great Britain,” he said.

“Our mandate was to work strictly within the existing legal and ethical structure, so it was fairly narrow. Given those restrictions, I think this is the best compromise possible.”

The guidelines set down four requirements for stem cell research to proceed: they must use pre-existing human embryonic stem cell lines; they must be embryos created for reproductive purposes that are

no longer required; the persons for whom the embryos were created must have given free and informed consent for their use in research; and there must have been no commercial transactions involved in the creation and use of the embryos.

Stem cells are precursor cells that are best taken from embryos or fetal tissue and can grow to become any organ in the body. Scientists hope that stem cells could be used to grow tissue for transplants or even whole organs. Under the new guidelines, researchers will not be allowed to grow embryos solely for research. From now on the stem cells used for research must be leftover from in vitro fertilization (IVF).

However, Caulfield was disappointed the committee had such limitations put on it. “We need to continue to talk about this on the national level and make some guidelines that reflect public attitudes and scientific possibilities,” he said.

He pointed to the practice of therapeu-

tic cloning, where a person’s DNA is implanted in a stem cell, which is used to grow transplant organs needed by the DNA donor. This practice will be specifically forbidden by these new guidelines.

“Polls show that something like 80 per cent of Canadians support that practice,” said Caulfield.

Laura Shanner, a professor at the John Dossetor Health Ethics Centre, agrees with Caulfield that the committee’s mandate was fairly narrow and that the guidelines are a decent compromise. However, Shanner has concerns about the consent criteria. She argues that the normal practice regarding consent in infertility clinics doesn’t go far enough to ensure that people who receive IVF are truly consenting to allow research to be conducted on their embryos.

“People go into IVF trying to conceive a baby, but they’re not often carefully thinking about what happens beyond

that,” she said.

Beyond the guidelines announced today, Shanner also has broader concerns about the practice of using embryonic stem cells in research.

She argues that the current debate around stem cells virtually ignores concerns about women’s health. “Before you can deal with embryos, you have to deal with women. And IVF can be an invasive and risky procedure for women.”

Shanner has other concerns as well, including the question of fairness.

“We need to ask ourselves some hard questions about justice. Canadians already live longer and live healthier than virtually any other people on the planet. Meanwhile, the majority of people can’t get access to basic drugs. We have to ask ourselves if we’re being greedy asking for custom made parts, as in therapeutic parts, that can be outrageously expensive,” she said. ■

The trials of Stockwell Day

Excerpt from Requiem for a Lightweight details fatal flaws

By Trevor Harrison

Why did Alliance during the year of 2000-2001 collapse as a functioning political party? In the broad sense, Alliance's time had passed. The constitutional and fiscal crises of the late 1980s and 1990s that gave rise to Reform had been replaced in 2000 by a neo-liberal consensus and general economic well being. The Liberal government in Ottawa had stealthily moved to the right, disarming its opponents in that sector by stealing many of their ideas. In order to proclaim its difference from the Liberals, the Alliance party was left to quibble over hair-splitting details or to defend the most ill defined, extreme, and un-saleable of policies.

At the specific level, however, three related factors explain Alliance's collapse. First, the previous leadership regime under Preston Manning provided no basis for an orderly succession. An early observer of Reform once commented that, "It wasn't a group picking a leader, it was a leader picking a group." More recently, Reform has been described as functioning as a "cult of personality." During his time as Reform leader, Manning centralized authority and discouraged internal opposition or even genuine debate, and in general made himself indispensable, even as he attempted to transform Reform into Alliance. Ultimately, as one former Reform researcher has argued, the party was "wired to detonate" when Manning left. But all leaders leave eventually, and it is a poor builder whose creation crumbles with his or her departure. Manning must take much responsibility for the crisis that befell the Alliance party.

Yet, Manning's departure need not have produced the crisis it did. A second related cause of the Alliance party's collapse was its lack of an entrenched institutional culture that would have helped weather the leadership crisis or established mechanisms for its swift and restrained resolution. Alliance's anti-party traditions

meant that many members, lacking discipline, gave free rein to "speaking" their personal "truths" without reflection or need for restraint, and without a clear means of reaching consensus. At the same time, the party's populist culture meant that nothing could be done without the consent of "the people," even as the term itself and the evidence for consent were so vague as to allow everyone and all sides to do almost anything in their name. Having once been elected by the membership, for example, the leader claimed without proof "the peoples'" continuing support. Likewise, the leader's opponents claimed without evidence that they too represented the concerns of their constituents and the membership. "The people" became thus a convenient prop underpinning the resultant stalemate that occurred.

The third cause of the collapse and the manner in which events played out was Stockwell Day's abilities, character, and particular psychological make-up. He had few roots in the Alliance party to begin with and proved unable by nature to accept advice, trust others, and garner the respect necessary to hold the party together. The image he projected to the public and his supporters was vague and inconsistent, and broke under media scrutiny. Stubborn and vain to a fault, convinced beyond evidence of his own abilities and mission, incapable of accepting normal cues for retreat or disengagement, Day ensured the knives when they came out would enact not a minor incision, but a major bloodbath and the party's ruin.

(Excerpted from Requiem for a Lightweight – Stockwell Day and Image Politics, by Trevor Harrison (Black Rose Books). A University of Alberta professor of sociology, Harrison is author of Of Passionate Intensity: Right-Wing Populism and the Reform Party of Canada and co-editor of The Trojan Horse: Alberta and the Future of Canada.) ■

Why worry about terrorists?

Civil liberties counsel blasts anti-terrorism legislation

By Geoff McMaster

In describing how severely new anti-terrorism legislation could restrict the basic rights and freedoms of Canadians, Alan Borovoy takes us back to a little-known police raid in 1974.

Police burst into a motel in Fort Erie, Ontario and strip searched about 100 people who were gathered in the lobby. It seems the police had reason to believe that a few people at that gathering may have been dealing drugs, and, at the time, that suspicion was all they needed to search everyone on site.

"Why in the world did the police ever need a power this broad?" asks Borovoy, the general counsel for the Canadian Civil Liberties Association. "Why would it not be enough to confine them to searching those people reasonably perceived in illicit possession of drugs?"

On campus to deliver a lecture at the law faculty recently, Borovoy said anti-terrorism legislation passed last December will give police similar powers of discretion to detain and arrest those they suspect of terrorism, including demonstrators and protestors.

During readings of Bill C-36, Borovoy was a lead advocate for a one-year sunset clause on the legislation, which would have allowed for sufficient public debate.

Borovoy objected most strongly to sections of the anti-terrorist legislation that prevent Canadians from providing financial aid to movements resisting dictatorships, and a listing of terrorist groups with the power to render people "pariahs without having been convicted of anything." He added "the bill makes no distinction between activities directed against democracies and those against dictatorships..."

The law also gives police new powers to deny people access to certain areas and deny freedom of movement at large conferences such as economic summits. "Why should the police become adjudicators of these competing interests? Except for exigent circumstances, the role of the police should not be to make decisions like that but to enforce decisions made by appropriate authorities.

"If we ever lose our freedom in this country, it will not be by invasion from without but by erosion from within," argued Borovoy. "The job is going to be done to us not by malevolent autocrats seeking to do bad but by parochial bureaucrats seeking to do good, who are so fixated, and have such tunnel vision with respect to their immediate goals, they don't consider the price." ■

positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPPA). The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.

ASSOCIATE DEAN, EQUITY AND FACULTY DEVELOPMENT FACULTY OF MEDICINE AND DENTISTRY

The Faculty of Medicine and Dentistry, University of Alberta, invites application for the position of associate dean, equity and faculty development. This position will report to the Dean of the Faculty of Medicine and Dentistry.

The mission of the Faculty is to be dedicated to the optimization of health through scholarship and leadership in our education programs, in fundamental and applied research and in the prevention and treatment of illness in conjunction with the Capital Health Authority and other partners. The values of the Faculty are: Scholarship; Respect, Compassion and Caring; Integrity; Excellence; Partnership; and Stewardship."

This position will ensure a healthy work environment conducive to the optimal professional development of the academic and support staff within the faculty. This position will:

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- Provide support and direction regarding areas of conflict, discrimination and harassment
- Promote collegiality and teamwork

The Faculty of Medicine and Dentistry and the Capital Health Authority represent one of Canada's leading academic health sciences centres. With budgets of \$140 million and \$1.3 billion respectively, the two organizations are recognized nationally and internationally for their combined leadership in research, education, and clinical service.

Details about the University of Alberta, the faculty, the CHA and Edmonton can be found on the faculty's home page at <http://www.med.ualberta.ca>.

Interested candidates should submit curriculum vitae, together with the names and addresses of three referees by April 30, 2002 to:

Dr. D. Lorne J. Tyrrell, Dean
Faculty of Medicine and Dentistry
University of Alberta
2J2 WC Mackenzie Health Sciences Centre
8440 – 112 Street
Edmonton, AB, Canada
T6G 2R7

ADMINISTRATIVE CO-ORDINATOR, NORTHERN ALBERTA CLINICAL TRIALS AND RESEARCH CENTRE FACULTY OF MEDICINE AND DENTISTRY/CAPITAL HEALTH AUTHORITY

Reporting to the Northern Alberta Clinical Trials and Research Centre (NACTRC) director, the administrative co-ordinator is responsible for managing the administrative operations of the NACTRC, a joint venture of the University of Alberta and Capital Health. Duties include: 1) In collaboration with the director, develop business and strategic plans, budgets, marketing plans and policies and procedures relating to the NACTRC and to regional research administration in general; 2) analyze complex situations and provide leadership and recommendations to resolve issues; 3) marketing the services of the NACTRC to both internal and external stakeholders; 4) managing research administration services including the timely review and processing of clinical trial agreements; 5) act as a resource for researchers to support them in conduct-

ing clinical trials; 6) development of quarterly and annual reports relating to the NACTRC; and 7) ensure effective communication relating to research within the region. The successful candidate will utilize a variety of management skills including: analysis and issues management, research, negotiation, interpersonal and written communication, supervision and contract administration. Must be able to work collaboratively with a number of stakeholders to develop positive outcomes.

Qualifications:

University degree in related area such as health sciences, health administration, business administration or considerable senior-level university administrative experience. Master's degree in health or business administration will be an asset. At least three years' experience in an area related to clinical research and/or program management.

Salary Range commensurate with qualifications and experiences.

Interested individuals are invited to apply in writing by March 13, 2002 to:

Dr. Joel H. Weiner, Associate Dean (Research)
Faculty of Medicine and Dentistry
2J2.11 Mackenzie Health Sciences Centre
University of Alberta
Edmonton AB
T6G 2R7

Please include curriculum vitae or résumé and the names of three references.

Please note that only those candidates selected for an interview will be contacted.

DIRECTOR CAMPUS SECURITY SERVICES

The University of Alberta is accepting applications for the position of director, Campus Security Services.

The University of Alberta is one of Canada's largest research intensive, full service universities. The university recognizes that its success to date and its growth and enhanced reputation for excellence in the future are highly dependent upon its ability to maintain safe and secure work, study and research environments, protect its physical assets and safely and securely conduct the kinds of student and staff activities and events which contribute to the university's greatness.

Reporting to the associate vice president (human resources) the director will provide vision and leadership to the university's Campus Security Services. Campus Security Services is mandated with providing a safe and secure campus for staff, students, alumni and other users of university facilities, ensuring the security of the university's physical assets and maintaining an appropriate security environment for a university which values diversity, dissent, the free and open exchange of ideas, and a high level of community and student activity.

The director will ensure that Campus Security Services is staffed by inspired, enabled and capable officers who have access to the technology and logistical support they require to fulfill their important roles. He or she will be an advocate for the importance of appropriate security in the continued success of the University of Alberta, including the importance of considering security in the design, construction or acquisition of new university facilities. The director will provide leadership in the utilization and implementation of a community policing model and will ensure Campus Security Services maintains an appro-

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Alumni House

3:30 - 5:30 p.m.

**Please RSVP by April 2nd to:
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private balance between community policing and law enforcement activities.

The successful candidate will have extensive knowledge of legislation and jurisprudence related to policing in Alberta and emerging safety and security issues in Canada. He or she will have strong management skills, including the application of human resource best practices, will know how to build consensus and will possess strong planning and strategic thinking capabilities and excellent communication and networking skills. A background in law enforcement and proven experience as a leader of community policing initiatives are required as is experience as a leader in joint operations involving multiple police and security agencies. Previous work experience in a unionized work environment is essential, as is professional experience in media relations.

The successful candidate will be a person possessed of solid judgment, will be decisive, energetic and will be someone with a record for getting things accomplished. He or she will possess a public presence which inspires confidence, will be comfortable with conflict, will be a person of obvious integrity and will be enthusiastic about working successfully with students and student organizations in a supportive and collaborative manner. The successful candidate will also have a strong commitment to training and ongoing professional and personal improvement and will display an overriding concern for the safety of Campus Security staff.

Preference will be given to candidates with RCMP or municipal police experience.

This is a full time continuing administrative/professional officer position with a salary range of \$55,321 - 87,591. The university offers a generous benefits package to its continuing employees.

Applications including a résumé and the names of three references should be sent in confidence to:

Mr. Fran Trehearne
Associate Vice President (Human Resources)
3-14 University Hall

University of Alberta
Edmonton, AB
T6G 2J9

The deadline for applications is March 28, 2002.

Further information is available on the Campus Security web site at www.css.ualberta.ca

REHABILITATION CO-ORDINATOR HEALTH RECOVERY SUPPORT UNIT

Human Resources has an exciting and challenging career opportunity with the Health Recovery Support Unit (HRSU) team in Staff Programs. You will be accountable for ensuring the effective case management of long and short-term disability, and workers' compensation claims involving academic and support staff. You will also facilitate access to appropriate assistance and/or support networks for individuals dealing with a chronic or progressive disability, to enable them to remain in the workforce and maintain an optimal quality of life. Your caseload will include individuals recovering from, or coping with, both physical and mental health disorders.

In addition to professional competency in areas related to disability management, you will demonstrate excellent customer service, interpersonal and organizational skills, and have the ability to both contribute effectively and work within a team environment.

The salary range for this position is \$40,820 to \$64,634 per annum.

The current incumbent plans to apply for this position. Candidates are asked to submit a résumé no later than March 15th, 2002 to:

Melanie Goroniuk
Health Recovery Support Unit
Staff Programs
2-40 Assiniboia Hall
University of Alberta
Edmonton, AB
T6G 2E7

notices

Please send notices attention Folio, 6th floor General Services Building, University of Alberta, T6G 2H1 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

MARCH 18, 2002 GFC DRAFT AGENDA

Draft Agenda items for the March 18, 2002 GFC meeting include:

Numerous questions and responses arising from the January 28, 2002 GFC meeting
Overall Reporting Structure of Administrative Information Systems Steering Committee (AISSC) and AISSC Executive

Committee

Discipline Sanctions January 1, 2002 to February 15, 2002: Report to GFC as Required by the (New) Code

For further information on these and remaining items on the agenda, please view:
www.ualberta.ca/~unisecr/

Submit talks and events to Cora Doucette by 9 a.m. one week prior to publication
cora.doucette@ualberta.ca

MARCH 22

Effective March 22 Folio Talks and Events listings will no longer accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in Folio and on ExpressNews at:
<http://www.expressnews.ualberta.ca/ualberta/L2.cfm?c=10>
Deadlines for Talks and Events submissions in Folio remains unchanged - 9 a.m. on the Friday prior to publication.

Career and Placement Services (CaPS).
Workshop "Creative Work Search Strategies."
Workshop fees range from \$10 to \$20. Pre-register.
CaPS, 2-100 Students Union Building. For complete listing of upcoming events, check our Web site at www.caps.ualberta.ca

MARCH 13

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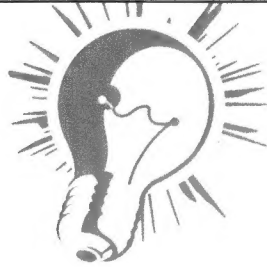
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talks & events

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<http://www.expressnews.ualberta.ca/ualberta/L2.cfm?c=10>

EVERY THURSDAY UNTIL APRIL, 2002

The Campus Observatory, roof and 7th floor of the Physics Building, is open for the 2001-2002 academic year. Open to everyone on Thursday evenings (except exam and holiday periods) beginning at 8:00 p.m. Special nighttime or daytime group visits can be arranged for other days and times. The Observatory will be open regardless of weather conditions. On cloudy nights a slide show can be substituted for telescopic observing. Reservations not required. For additional information, please contact Adam Pigeon, S.P.A.C.E. (Students Promoting Astronomy Culture and Education) — new club formed by the undergraduate student volunteers, apigeon@ualberta.ca, or Doug Hube, 492-5410, or Sharon Morsink, 492-3987.

THURSDAY EVENINGS UNTIL APRIL, 2002

Spanish Language Cafes. Parkallen Pizza, 8424 — 109 Street (not the original Parkallen restaurant, but their new pizzeria branch). Who's invited? Students at all levels, from beginner to advanced. Casual and practical conversation in an informal atmosphere. 7:00 p.m.

JANUARY 22 TO MARCH 26, 2002

Student Counselling Services. "Developing Relaxation Strategies." Student Counselling Services offers an 8-session group to those who are interested in developing various relaxation techniques. Location: Student Counselling Services, 2-600 Students' Union Building. Tuesdays from 11:00 to 11:50 a.m. Please note: Participants must register in advance and meet with the facilitator prior to the start of the group. Visit Web site at www.ualberta.ca/~uscs for more information, or call 492-5205.

JANUARY 23 TO MARCH 20, 2002

Student Counselling Services. "Social Anxiety and Shyness Group." Student Counselling Services will be offering an 8-session group to those individuals who struggle with social anxiety and shyness. Location: Student Counselling Services, 2-600 Students' Union Building. Wednesdays from 2:00 to 4:00 p.m. Please note: Participants must register in advance and meet with the facilitator prior to the start of the group. Visit Web site at www.ualberta.ca/~uscs for more information, or call 492-5205.

JANUARY 25 TO MARCH 22, 2002

Student Counselling Services. "Developing Relaxation Strategies." Student Counselling Services will be offering an 8-session group to those who are interested in developing various relaxation strategies. Location: Student Counselling Services, 2-600 Students' Union Building. Fridays from 10:00 to 10:50 a.m. Please note: Participants must register in advance and meet with the facilitator prior to the start of the group. Visit Web site at www.ualberta.ca/~uscs for more information, or call 492-5205.

FEBRUARY 20 TO MARCH 26, 2002

University Extension Centre Gallery. "Alberta Watercolour Tradition." The purpose of this exhibition is to give our students and publics an opportunity to view a diverse approach to watercolour painting and therefore to stimulate their inter-

est and appreciation of this versatile medium. Second floor, University Extension Centre, 8303 — 112 Street. Gallery hours are from 8:30 a.m. to 8:00 p.m. Monday to Thursday, 8:30 a.m. to 4:30 p.m. Friday, and 9:00 a.m. to 12:00 noon Saturday. For further information, please call 492-3034.

MARCH 5 TO 17, 2002

FAB Gallery. "Flash Point: Painting." Department of Art and Design Painters: 2001/2002. Gallery hours: Tuesday to Friday, 10:00 a.m. to 5:00 p.m., Sunday 2:00 p.m. to 5:00 p.m. Closed Mondays, Saturdays, statutory holidays. 1-1 Fine Arts Building, 89 Avenue and 112 Street. For further information, please call 492-2081.

MARCH 8

Department of Biological Sciences. Ecology Seminar Series (part of the Biology 631 Seminar Series). Melissa Larenieri, Department of Biological Sciences, U of A, speaking on "Flow routing in glacial and non-glacial stream catchments at Bow Lake: implications for organochlorine transport." BS M-149, Biological Sciences Building. 12:00 noon.

John Dossetor Health Ethics Centre. Research Ethics Education Forum, "The Challenge of Teaching Ethics to Researchers." Glenn Griener, Ph.D., John Dossetor Health Ethics Centre, Sharon Warren, Ph.D., Faculty of Rehabilitation Medicine, and Eleanor Stewart, Ph.D. (Candidate), Faculty of Rehabilitation Medicine. Room 207, Heritage Medical Research Centre. From 12:00 noon to 1:00 p.m.

University Teaching Services. Martin Palmer, Oncology, as part of a Brown Bag Lunch Series, presents "Examining our Assumptions: Improving the Teaching and Learning Experience." Room 219 Central Academic Building. From 12:05 to 1:00 p.m.

Student Counselling Services. Half-day workshop. "Balancing Your Needs With Those of Others." Register in advance by calling 492-5205 or visit our Web site for information on other services at www.ualberta.ca/~uscs. Location: 2-600 Students' Union Building. From 1:00 to 4:00 p.m.

Department of Modern Languages and Cultural Studies. Lecture by Distinguished Visitor Dr. Margaret Littler. Topic: "Diasporic Identity in the Work of Emine Sevgi Ozdamar." Room 1-5 Business Building. 2:30 p.m.

Centre for Research on Literacy. Dr. Rita Oittinen, School of Modern Languages and Translation Studies, University of Tampere, Finland, speaking on "Translating the Visual: Picturebooks and Translation." Room 651a Education South. 3:00 p.m.

Earth and Atmospheric Sciences. Atlas Seminar. Ato Aubynn from the Department of Earth and Atmospheric Sciences will present "Sustainable mining and community perceptions of local mining operations in Ghana." Room 3-36 Tory Building. From 3:00 to 4:00 p.m.

Department of Biological Sciences. Genetics 605 Seminar Series. Molecular Biology and Genetics Research Group. Dr. Thomas Grigliatti, Department of Zoology, University of British Columbia. "Chromatin packaging and the function of the HIS-C locus in Drosophila." Location: M-149, Biological Sciences Building. 4:00 p.m.

Shevchenko Lecture sponsored by the Ukrainian Professional and Business Club, Edmonton and the Canadian Institute of Ukrainian Studies (CIUS), University of Alberta. Dr. Ostap Hawaleshka, Emeritus Professor, University of Manitoba, speaking on "Mriya": Ukrainian Achievements in Aerospace Science and Technology. For further information, please contact the Canadian Institute of Ukrainian Studies, 492-2972, email: cius@ualberta.ca Alberta Aviation Museum, 11410 Kingsway Avenue. 7:30 p.m.

Department of Music. Music at Convocation Hall. Jacques Després, piano; Claude Debussy Children's Corner; Malcolm Forsyth Je répondrais; Franz Liszt Sonata in B Minor. Admission: \$7/student/senior, \$12/adult. All concerts and events subject to change without notice. Please call 492-0601 to confirm concert information. 8:00 p.m.

MARCH 9

Career and Placement Services (CaPS). Workshop "Interview Skills for Education Students." Workshop fees range from \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check our Web site at www.ualberta.ca/caps. Room 4-02 Students' Union Building. 9:30 a.m. to noon.

Career and Placement Services (CaPS). Workshop "Career Decision-Making Strategies." Workshop fees range from \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check our Web site at

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www.ualberta.ca/caps. Room 2-100 Students' Union Building. 10:00 a.m. to 1:00 p.m.

Career and Placement Services (CaPS). Workshop "Building a Teaching Portfolio." Workshop fees range from \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check our Web site at www.ualberta.ca/caps. Room 4-02 Students' Union Building. 12:30 p.m. to 2:00 p.m.

U of A Philosophers' Café: an opportunity for the public to engage in informal, lively conversation about philosophical or topical issues. Topic: "Religion, Power and Violence: what are the connections?" Guest scholar: Earle Waugh, Professor of Religious Studies. Moderator: Bernard Linsky, Chair of Philosophy. From 2:00 to 3:30 p.m. Location: Nina's Restaurant, 10139 - 124 Street.

U of A Alumni, Students, and Golden Bear fans are invited to a pre-game reception with free pizza and a cash bar, where alumni, students, and fans can meet up before the game. Cost: Alumni and one guest get in free, students and fans pay \$5.00 per person. Alumni need their Alumni OneCard (or their degree and picture ID!). After the party, watch the Bears compete on the hardwood and the ice for Canada West playoffs in men's basketball and hockey. Alumni Room, Students' Union Building. Beginning at 5:00 p.m.

Department of Music. A Celebration of Traditional West African Music and Dance featuring Distinguished Visitor Frederick Kwasi Dunyo, Master Drummer/Dancer/Choreographer, with The University of Alberta West African Music Ensemble. Michael Frishkopf, Director and other Special Guests. Unless otherwise indicated, admission \$5/student/senior, \$10/adult. Convocation Hall, Arts Building. All concerts and events subject to change without notice. Please call 492-0601 to confirm concert information. 8:00 p.m.

MARCH 11

Department of Chemistry. Visiting Speaker, Professor Joseph Noel, Structural Biology Laboratory, The Salk Institute for Biological Studies, La Jolla, California, will speak on: "Structural, Functional, and Evolutionary Basis for Plant Polyketide Biosynthesis." V-107 Physics Wing. 11:00 a.m.

University Teaching Services. Erhan Erkut, Finance and Management Science, presents "Working the Room: Teaching Large Classes in Smart Classrooms." Room 265 Central Academic Building. From 3:00 to 4:30 p.m.

MARCH 12

Academic Support Centre. Workshop for students. "Note Taking and Memory Strategies." \$20. Call 492-2682 to register. From 1:00 to 2:30 p.m.

Career and Placement Services (CaPS). Workshop "Creative Work Search Strategies." Workshop fees range from \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check our Web site at www.ualberta.ca/caps. Room 4-02 Students' Union Building. 5:00 to 6:30 p.m.

Department of Music. Trio Fibonacci, Julie-Anne Derome, violon, Gabriel Prynn, violoncello, André Ristic, piano. Featuring Twentieth Century and recent works for piano trio. Unless otherwise indicated admission \$5/student/senior, \$10/adult. Convocation Hall, Arts Building. All concerts and events subject to change without notice. Please call 492-0601 to confirm concert information. 8:00 p.m.

MARCH 13 TO 15

Department of Anthropology Frucht Memorial Lecture Series. The University of Alberta Association of Graduate Anthropology Students is proud to present the annual Richard Frucht Memorial Lecture Series with distinguished guest, Dr. Alan Cooper from Oxford University. Public lecture at the Provincial Museum of Alberta on March 13 at 7:00 p.m. For free tickets, email sikstrom@ualberta.ca or call 492-9879 or the Provincial Museum of Alberta, 453-9100. Roundtable discussion March 14 at 2:00 p.m. in Tory 1-93. Speakers include Dr. Mike Evans, Dr. Timothy Caulfield, and Dr. Fiona Bamforth. The Frucht Keynote Address takes place on March 15 at 3:00 p.m. in Business 1-9. For details: www.arts.ualberta.ca/~agas/frucht.!

MARCH 13

Canadian Blood Services. Are you curious about your blood type? If so, CBS will be holding a What's Your Type clinic at the Students' Union Building. The test is free, requires two drops of blood (from a finger poke), and only takes two minutes. If you have any questions, or if you would like more info, please call Lori Bosko, Community Relations Coordinator, 431-8745. From 10:00 a.m. until 3:00 p.m.

Department of Biological Sciences Seminar Series: Thesis MSc. Speaker: Judith Shapiro. Title: "Regulation of moth/yucca mutualism: selective abscission or egg mortality in fruit." Location: CW313 Biological Sciences Building. 12:00 p.m.

Department of Public Health Sciences. Colloquium and Grand Rounds. Occupational Health:

Dr. Nicola Cherry, Professor and Director of Occupational Health, presents: "ESPRIT - the story of a trial (Estrogen in the Prevention of Re-Infarction Trial)." Room 2-117 Clinical Sciences Building. 12:00 noon to 1:00 p.m.

Lunch and Learn Presentation. "How Can I Help? Tips for Dealing with Grief." Presenter: Dr. Simon Sheh, Cornerstone Counselling. Presented by the Health Recovery Support Unit. Location: Heritage Lounge, Athabasca Hall. From 12:00 p.m. to 1:00 p.m. Cost: Free! Snacks and beverages will be provided. To register or for more information contact Sarah Treby at 492-0659 or email: sarah.treby@hrs.ualberta.ca or visit Web site www.hrs.ualberta.ca/efap/news for an updated list of all workshops and other offerings.

University Teaching Services. Loren Spector, Edmonton Public School Board, presents "The Good, the Bad, and the Ugly." Room 265, Central Academic Building. From 3:00 to 4:30 p.m.

ICORE Distinguished Lecture Series, presented live and through the Alberta Video Classroom Network. Gerard Lachapelle, "Space and time with global navigation satellite systems." Live: Telus Centre 134, University of Alberta. All lectures are at 4:00 p.m. live and by videolink in Calgary and Edmonton via multi-cast. Reception at 5:00 p.m. in live location. Admission is free. Everyone welcome.

Academic Support Centre. Workshop for students. "Note Taking and Memory Strategies." \$20. Call 492-2682 to register. From 4:00 to 5:30 p.m.

Career and Placement Services (CaPS). Workshop "Self-Employment: From Assessment to Start-Up." Workshop fees range from \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check our Web site at www.ualberta.ca/caps. Room 4-02 Students' Union Building. 5:00 to 7:30 p.m.

Department of Music. Master of Music You Ree Rho, soprano. Free admission. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information. 8:00 p.m.

MARCH 14

Student Counselling Services. Workshop "Balancing Your Needs with Others." Location: Student Counselling Services, 2-600 Students' Union Building. Register in advance by calling 492-5205. From 9:30 to noon.

Department of Renewable Resources. Landscape Ecology Seminar Series. Dr. Jim Butler, Professor, Department of Renewable Resources, speaking on "Wildlife biodiversity and protection in Inner Mongolia." Wyatt Lecture Room, (236 Earth Sciences Building). From 12:30 to 1:50 p.m.

Department of History and Classics. Selina Stewart, U of A, speaking on "Variations on the Sphere of Eros, and the Restoration of Same-Sex Gender in Anacreon f. 13 (358)." Room 2-58 Tory Building. 3:30 p.m.

Environmental Research and Studies Centre. Interdisciplinary Environmental Seminar Series. The Last Great Forest. Dr. Stephen Sheppard, University of British Columbia, presents "The Transparent Forest: Visualizing Sustainable Forestry." Alumni Room, Students' Union Building. 4:30 p.m.

Career and Placement Services (CaPS). Career Forum "International Development." Room 265 Central Academic Building. Tickets \$4 when you pre-register at CaPS, 2-100 Students' Union Building, or \$5 at the door. From 5:00 to 7:00 p.m.

Career and Placement Services (CaPS). Workshop "Interview Skills." Workshop fees range from \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check our Web site at www.ualberta.ca/caps. Room 4-02 Students' Union Building. 5:00 to 7:30 p.m.

School of Business. Centre for Entrepreneurship and Family Enterprise presents renowned scholar and author Dr. Denise Rousseau from Carnegie Mellon University, speaking on "Idiosyncratic Deals: When Workers Bargain for Themselves." Reception to follow presentation. Free of charge but registration is requested. Call 492-5181 or email cefe@ualberta.ca. Location: Stollery Centre, 5th Floor, Business Building. From 7:00 p.m. to 8:30 p.m.

MARCH 15

Department of Medical Microbiology and Immunology. Seminar by David Evans, Ph.D., Professor and Chair, University of Guelph, Department of Molecular Biology and Genetics, MMI Chair Candidate. "Poxviruses: Replication, Recombination, and DNA Repair." Classroom F (2J4.02 Walter Mackenzie Centre). 12:00 p.m.

Department of Biological Sciences. Ecology Seminar Series (part of the Biology 631 Seminar Series). Glen Chilton, "Cultural Evolution in Songbirds: Lessons from Sparrows and Warblers." BS M-149, Biological Sciences Building. 12:00 noon.

Student Counselling Services. Drop-In Career Information Session. No registration is required. For more information, contact Student Counselling Services at 492-5205. 2-600 Students' Union Building. From 2:00 to 2:50 p.m.

Department of Biological Sciences Departmental Seminar Series. Dr. Steve Perry,

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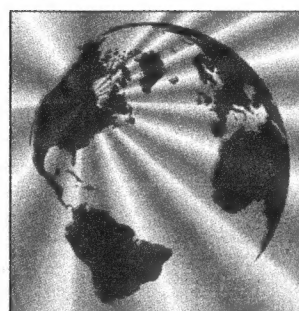
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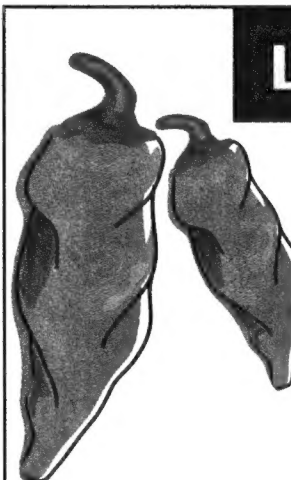
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Department of Biology, University of Ottawa, "Evolution of the Acute Stress Response in Fish." V-120, Physics V-Wing. 3:00 p.m. (refreshments available at 2:30).

Department of Physiology. Speaker: Dr. Tom Hobman, Department of Cell Biology. Title: "Characterization of PPD (Piwi Paz Domain) proteins: A protein family implicated in regulating post-transcriptional gene-silencing and stem cell renewal." 207 Heritage Medical Research Centre. 3:00 p.m.

Earth and Atmospheric Sciences. Atlas Seminar. Pedro Jugo from the Department of Earth and Atmospheric Sciences will present "Experimental determination of sulfur stability in basaltic melts at sulfide vs. sulfate saturation. Possible implications for ore formation." Room 3-36 Tory Building. From 3:00 to 4:00 p.m.

Department of Biological Sciences. Genetics 605 Seminar Series. Molecular Biology and Genetics Research Group. Dr. Martin Tenniswood, Department of Biological Science, University of Notre Dame, South Bend, Indiana, USA, speaking on "Alterations in the biogenesis of clusterin. An extracellular and nuclear chaperone, during cell death of hormone dependent cancers." Room M-149 Biological Sciences Building. 4:00 p.m.

Department of Music. Music at Convocation Hall. Ménéage à Trio, Stéphane Lemelin, piano; Martin Riseley, violin; Tanya Prochazka, cello. Ludwig van Beethoven Piano Trio in G, Op 1 No 2, Piano Trio in E flat, Op 70 No 2, Piano Trio in B flat, Op 97 (The Archduke). Admission: \$7/student/senior, \$12/adult. 8:00 p.m.

MARCH 16

Career and Placement Services (CaPS). Workshop "Self-Employment: Developing a Business Plan that Works!" Workshop fees range from \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check our Web site at www.ualberta.ca/caps. Room 4-02 Students' Union Building. 9:30 a.m. to noon.

Academic Support Centre. Workshop for students. "Study Strategies and Exam Preparation." \$50. Call 492-2682 to register. From 10:00 a.m. to 3:30 p.m.

Career and Placement Services (CaPS). Workshop "Self-Employment: From Principle to Promotion." Workshop fees range from \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check our Web site at www.ualberta.ca/caps. Room 4-02 Students' Union Building. 12:30 to 3:00 p.m.

Department of Music. The University of Alberta Madrigal Singers Annual Dinner Concert and Silent Auction. Ardelle Ries, Conductor. Hotel MacDonald. For tickets and further information, please call 492-5306. 6:00 p.m.


MARCH 17

Department of Music. Master of Music Recital. Heather Davis, Conductor. Wind Band Conducting. Free admission. 8:00 p.m.

MARCH 18


John Dossetor Health Ethics Centre. Videoconference hosted by the Disability and Ethics

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Initiative at the University of Alberta. Full title: "Bioethics and Disability: Making Assumptions Explicit." Seminar led by Dr. Gregor Wolbring, University of Calgary. Selected Locations. To register please email: bronwen.jack@ualberta.ca or call 492-5745.

University Teaching Services. Deborah Eerkes, Student OmbudService, David Sharp, Discipline Officer, and Iva Spence, University Secretariat present "Dealing with Academic Dishonesty in the Classroom." Room 219 Central Academic Building. From 12:05 to 1:00 p.m.

Department of Music. Music at Noon, Convocation Hall Student Recital Series featuring students from the Department of Music. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information. Free admission. 12:10 p.m.

Department of Music. Master of Music Recital. Sarah Wolkowski, saxophone. Convocation Hall, Arts Building. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information. Free admission. 8:00 p.m.

MARCH 19

Human Ecology Research Seminars. Anne Ramsden (M.Sc. Candidate) presents "Humanities Centre Takao Tanabe Banners: Their Condition and Suggestions for Conservation." Room 305 Human Ecology Building. From 12:30 p.m. to 1:30 p.m.

Academic Support Centre. Workshop for students. "Exam Preparation." \$20. Call 492-2682 to register. From 1:00 to 2:30 p.m.

University Teaching Services. Olive Yonge, Nursing, presents "Boundary Crossings and Violations Between Professors and Students." Room 281 Central Academic Building. From 3:30 to 5:00 p.m.

MARCH 20

Student Counselling Services. Exam Anxiety Workshop. Register in advance by calling 492-5205. Visit our Web page at www.ualberta.ca/~uscs for information on other services. Student Counselling Services, 2-600 Students' Union Building. From 9:00 a.m. to 12:00 p.m.

Lunch and Learn Presentation. "Anger Management." Presenter: Dr. Judy Moench, Cornerstone Counselling. Presented by the Health Recovery Support Unit. Location: Heritage Lounge, Athabasca Hall. From 12:00 p.m. to 1:00 p.m. Cost: Free! Snacks and beverages will be provided. To register or for more information contact Sarah Treby at 492-0659 or email: sarah.treby@hrs.ualberta.ca or visit Web site www.hrs.ualberta.ca/efap/news for an updated list of all workshops and other offerings.

Department of Public Health Sciences. Colloquium and Grand Rounds. PHS Students Association (Population Health). Guest Speaker: Mr. Art McIntyre, Assistant Deputy Minister, Population Health Division, Alberta Health and Wellness. Topic: TBA. Room 2-117 Clinical Sciences Building. From 12:00 noon to 1:00 p.m.

University Teaching Services. Howard Saslove, Student Counselling Services, presents "Responses to Distressed Students." Room 281 Central Academic Building. From 3:00 to 4:30 p.m.

Department of Rural Economy and Faculty of Agriculture, Forestry and Home Economics present the John and Eileen Jorgens Invited Lecture, featuring Dr. Andrew Fearn, Senior Lecturer in Food Industry Management, Imperial College at Wye, University of London. Topic: "Co-operating to Compete: Vertical Co-ordination in a Global Food Industry." Room 238, Telus Centre, 87 Avenue and 111 Street. Reception to follow. 3:30 p.m.

Academic Support Centre. Workshop for students. "Exam Preparation." \$20. Call 492-2682 to register. From 4:00 to 5:30 p.m.

Department of Biomedical Engineering. Videoconference Seminar. Speaker: Dr. Kelvin Jones, Department of Biomedical Engineering. Title: "Adaptive Control in the Human Sensorimotor System." Room 231 Civil Electrical Engineering Building. 5:30 p.m.

Department of Music. Master of Music Recital. Karen Nell, soprano. Convocation Hall, Arts Building. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information. Free admission. 8:00 p.m.

MARCH 21

Department of English. Reading by Vi Plotnikoff, Doukhobor writer and storyteller. Room L-3, Humanities Centre. 2:00 p.m.

Department of East Asian Studies. Dr. Stanley Rosen, Professor of Political Science, University of Southern California, "Chinese Youth in 2002: Internationalism, Nationalism and Pragmatism." Room 1-6 Business Building. 3:30 p.m.

University Teaching Services. Carolin Kreber, Educational Policy Studies, presents "Learning Styles: Do we Need to Cater to Them?" Room 281 Central Academic Building. From 3:30 to 5:00 p.m.

Environmental Research and Studies Centre. Interdisciplinary Environmental Seminar

Series. The Last Great Forest. Mr. Ed Struzik, Edmonton Journal, presents "Unsolved Mysteries of the Arctic." Alumni Room, Students' Union Building. 4:30 p.m.

MARCH 22 TO 24, 2002

Department of Linguistics hosting WSCLA 7: Seventh Annual Workshop on Structure and Constituency in the Languages of the Americas. "Convergence and Divergence: Language Variation within and across Language Families." This is the biggest WSCLA yet, with 38 speakers (including 7 plenary lectures) from 25 post-secondary institutions and 6 different countries. Telus Centre for Professional Development, 111 Street and 87 Avenue. Visit Web site: www.arts.ualberta.ca/~linguist/WSCLA.htm

MARCH 22

Career and Placement Services (CaPS). Workshop "The Academic Interview – Advice for Perfecting Your Interview Skills." NEW for graduate students! Workshop fees range from \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building. For a complete listing of upcoming events, check our Web site at www.ualberta.ca/caps. Room 4-02 Students' Union Building. 12:00 to 1:00 p.m.

Department of Biological Sciences. Ecology Seminar Series (part of the Biology 631 Seminar Series). Dave Schindler and Cynthia Zutter, "A paleoecological reconstruction of the fire history of Jasper National Park." BS M-149, Biological Sciences Building. 12:00 noon.

University Teaching Services. Joe Norris, Secondary Education, presents "C5: Civility, Citizenship, and Community Construction on Campus." Room 4-104 Education North (Drama Education Studio). From 1:30 to 3:30 p.m.

Centre for Research on Literacy. Literacy Research Seminar Series. Heather Blair, Department of Elementary Education, University of Alberta and Kathy Sanford, Department of Curriculum and Instruction, University of Victoria, present "Boys R Us: Engendering Literacy for Boys." Room 651a Education South. 3:00 p.m.

Department of Philosophy. Philosophy

Colloquium. Leah Armontrout, Paul Beach and David Kahane, Department of Philosophy, University of Alberta, are presenting a workshop on "Teaching Philosophy." All welcome. Room 3-10 Business Building. 3:00 p.m.

Department of History and Classics. Colloquium Series. Dr. Paul R. Magocsi, University of Toronto, "On the Writing of the History of Peoples and Nation-States: The Cases of Poland, Slovakia and Ukraine." Room 2-58 Tory Building. 3:00 p.m.

Department of Biological Sciences. Genetics 605 Seminar Series. Molecular Biology and Genetics Research Group. Dr. Curt Wittenburg, Department of Molecular Biology, Scripps Research Institute, La Jolla, California, USA, speaking on "Roles of SCF-Mediated Proteolysis in cell Cycle and Transcriptional Control." M-149, Biological Sciences Building. 4:00 p.m.

MARCH 23

Faculty of Rehabilitation Medicine. Presented by the Rehabilitation Research Centre, Faculty of Rehabilitation Medicine Education workshop designed for Grad students, Post-doctoral Fellows and Researchers Title: The Nuts and Bolts of Interview Research: Practical Tips from Beginning to End Presenters: Wonita Janzen, PhD, Sandra MacPhail, MN, Eleanor Stewart, PhD Candidate Saturday, March 23, 2002, From 9:30 to 3:30 Room 2-41 Corbett Hall Lunch provided Advance registration: \$35.00, after March 15th, \$40.00 (no GST). Print the registration form from www.rehabmed.ualberta.ca/rrc OR request forms from Eleanor Stewart at 492-7499

Department of Music. Northern Alberta Honor Band. Fordyce Pier, Director. Convocation Hall, Arts Building. All concerts and events are subject to change without notice. Please call 492-0601 to confirm concert information. Free admission. 7:00 p.m.

Faculty of Extension. The Certificate Program in Medical Acupuncture is hosting a free public lecture at the University Extension Centre, Room 3-40. Presented by Dr. Bernard Brom, Chairman of South African Society of Integrative Medicine. Topic "Integrative Medicine in the 21st Century, 'A quantum leap about to happen.'" From 7:30 p.m. to 9:30 p.m.

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Wednesday, January 16th NORMAN BEAULIFU Biosciences 587, University of Calgary

System-on-a-chip: Expanding the challenges

INFORMATION PROCESSING

Wednesday, February 13th GRAHAM JULLIEN Telus Centre 134, University of Alberta

Space and time with global navigation satellite systems

GLOBAL POSITIONING

Wednesday, March 13th GÉRARD LACHAPELLE Telus Centre 134, University of Alberta

The games computers (and people) play

ARTIFICIAL INTELLIGENCE

Wednesday, April 17th JONATHAN SCHAEFFER Biosciences 587, University of Calgary

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LECTURER SERIES

Applications of nanoengineered materials

NANOTECHNOLOGY

Wednesday, May 15th MICHAEL BRETT Biosciences 587, University of Calgary

The physics of small in nanotechnology

NANOTECHNOLOGY

Wednesday, September 18th MARK FREEMAN Biosciences 587, University of Calgary

The future of broadband wireless


BROADBAND WIRELESS

Wednesday, October 16th CAREY WILLIAMSON Telus Centre 134, University of Alberta

The mathematical foundations of communications security

ENCRYPTION

Wednesday, November 13th HUGH WILLIAMS Telus Centre 134, University of Alberta

lectures are free  everyone welcome


LIVE SCHEDULE

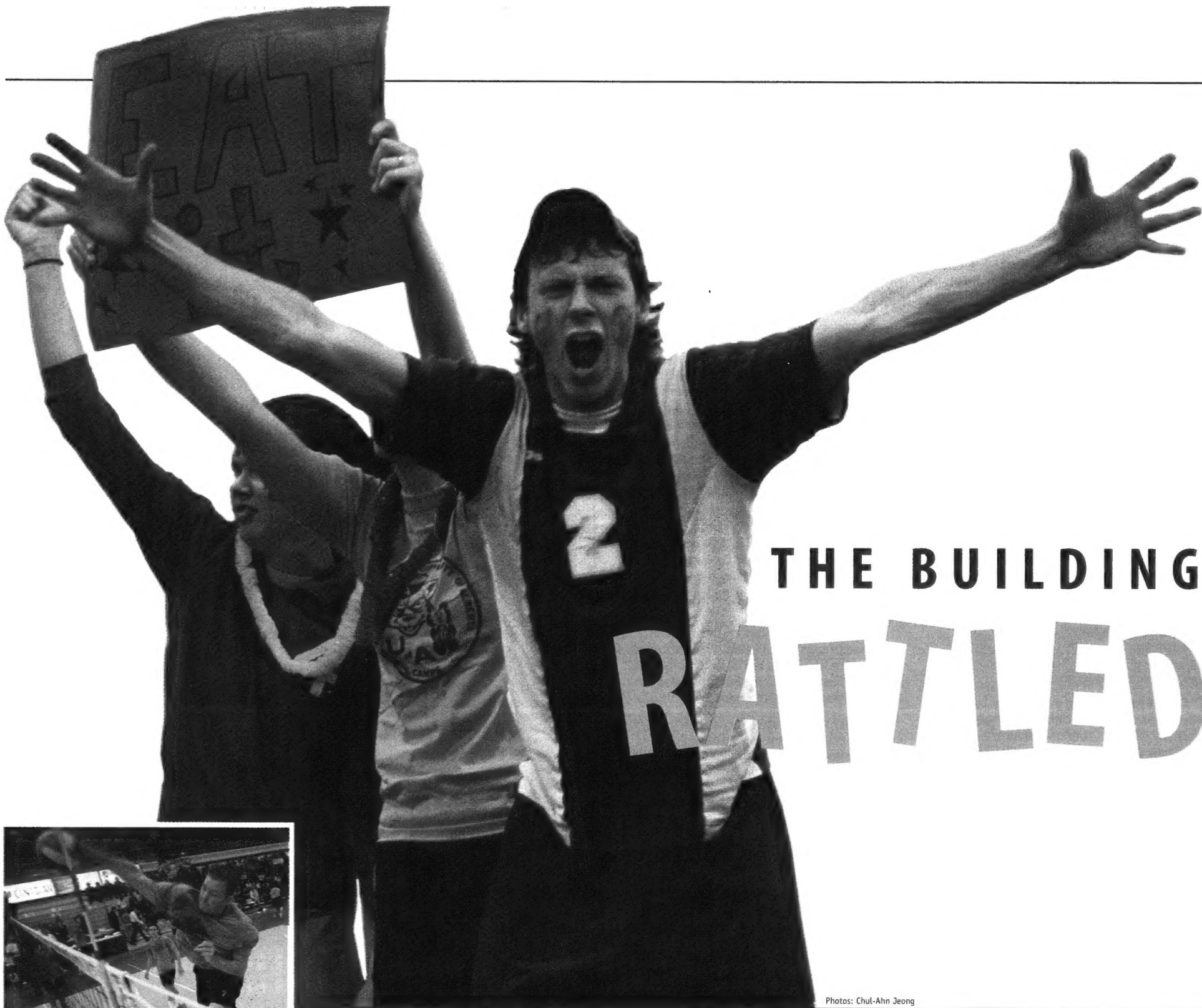
All lectures are at 4 pm live and by videolink in Calgary and Edmonton. Reception at 5 pm in host location.

WEB SCHEDULE

Lectures available for desktop viewing within 24 hours of live presentation at www.icore.ca

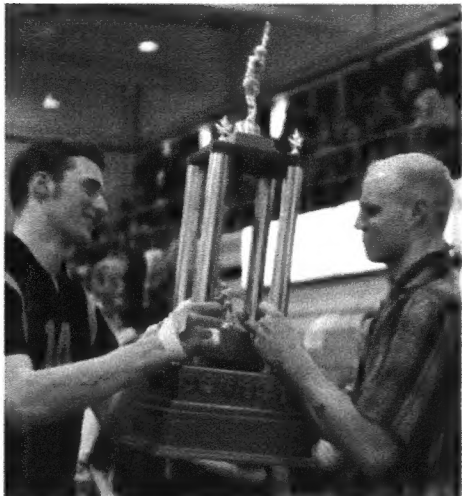
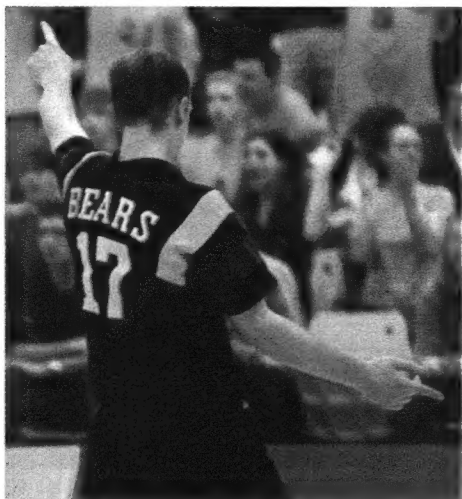
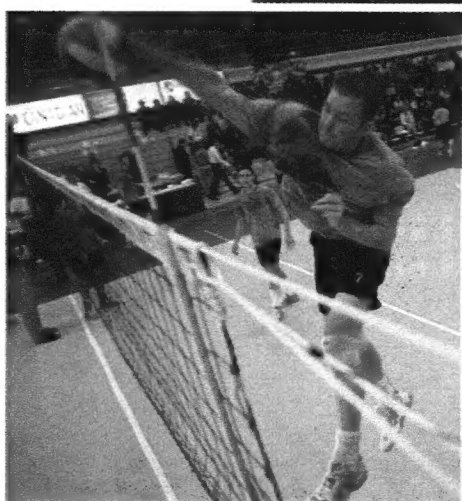
All lectures can be attended through the Alberta Video Classroom Network at U of C (Biosciences 587), U of A (Telus Centre 134), Mount Royal College (T107), SAIT (TR3 304), and NAIT (R003).

University of Alberta  folio March 8, 2002



Photos: Chul-Ahn Jeong

THE BUILDING RATTLED



Bears win national volleyball title

By Ryan Smith and Emmanuel Moutsatsos

The University of Alberta Golden Bears volleyball team hosted and won the Canadian Interuniversity Sport national championships by defeating the reigning champions then advancing to top spot.

The fifth-ranked volleyball Bears defeated the second-seeded University of Winnipeg Wesmen 3-2 (25-22, 16-25, 25-23, 23-25, 15-7) in front of 2,300 raucous fans at the U of A Main Gym. The Bears had upset the top-ranked, two-time defending champion University of Manitoba Bisons in straight sets the night before.

The Bears showed promise throughout the year, finishing the regular season with a 15-5 record in the tough Canada West Mountain conference. But a loss to the Wesmen two weeks ago in the Canada West semi-finals left the Bears positioned as the underdogs in the eight-team national tournament.

"We had some devastating losses throughout the year," said Bears volleyball head coach Richard Schick. "It's sort of a cliché to say that we learned from those losses, but we did—we had to. It was definitely a rocky road for us, but we never lost sight of our goal, which was to win a national championship, and that was always a realistic goal in our eyes."

"We had our ups and downs," added Ryan Taylor, a second-year Phys. Ed. student who captained the Bears team and was named MVP this season. "But we had a good two weeks of practice before the nationals and we were relaxed and loose and it all came together for us, right from the first serve against Queen's (in first game of the national tournament)."

The final saw outstanding performances by both teams' star players. All-Canadian Sandy Henderson for the Bears and All-Canadian Jason Dufault for the Wesmen, were attacking on each play with a mission to extract the best result from it.

The tightly wound first set went in favour of the Bears, who were able to feed off the energy of an energetic home crowd.

"We packed the gym tonight," said Henderson. "It was an unbelievable buzz throughout the whole match."

Dufault did what he could to focus on the game, not the fans and the Wesmen came back and took the second set.

"I thrive off the noise, but there were a couple of times when they did get into my head," Dufault said of the crowd. "It definitely is advantage for them and I tried to use it in my favour as well."

A nail-bitter of a third-set saw the

Bears stretch their abilities and control their emotions to keep up with the Wesmen, who were steadily gaining momentum.

The fifth set was pure mayhem with every play and point scored by the Bears receiving a deafening ovation, while the Wesmen drew heckles every time they capitalized.

The Bears simply dominated with a keen desire to place a national championship banner in their gym. The win coincided with a national championship win by the Pandas hockey team. The victories bring to the number of national championships earned at the U of A this school year to four, adding to the pair of national titles earned by the Pandas rugby and soccer teams. The Bears hockey team makes it sixth consecutive appearance at the national championships later this month. ■

The University of Alberta Golden Bears were ranked fifth entering the recent CIS national volleyball championships. It turns out they're No. 1, but it took a memorable weekend to prove it. Pascal Cardinal demonstrates winning form during warm-ups, top. At one point, Brad Bell (17) turned and acknowledged the rowdy home crowd—which responded by turning up the volume. Leo Carroll and coach Richard Schick savour the victory.

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